



TITLE:

Cover & Contents

AUTHOR(S):

CITATION:

Cover & Contents. Bulletin of the Institute for Chemical Research, Kyoto University 1963, 41(1)

ISSUE DATE:

1963-03-30

URL:

<http://hdl.handle.net/2433/75950>

RIGHT:

BULLETIN OF THE INSTITUTE FOR CHEMICAL RESEARCH

KYOTO UNIVERSITY

Vol. 41, No. 1

Special Issue
on
Physical, Chemical and Biological Effects
of
Gamma Radiation, IV

Published bi-monthly by

THE INSTITUTE FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY
KYOTO, JAPAN

March, 1963

(Bull. Inst. Chem. Res., Kyoto Univ.)

**INSTITUTE FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY**

Director

Rempei GOTOH

Members of Council

Eiichi FUJITA	Rempei GOTOH	Osamu HAYAISHI
Masao HORIO	Katsuhiko ICHIKAWA	Hiroshi INAGAKI
Kiichi KIMURA	Naokazu KOIZUMI	Sango KUNICHIKA
Michio KURATA	Ryohei ODA	Minoru OHNO
Ichiro SAKURADA	Tsunenobu SHIGEMATSU	Sakae SHIMIZU
Keiiti SISIDO	Eiji SUITO	Tomoji SUZUKI
Hideo TAKAKI	Yoshimasa TAKEZAKI	Tetsuro TANAKA
Megumi TASHIRO	Waichiro TSUJI	Tatsuo YAMAMOTO
Hideki YUKAWA		

Publication Committee

Rempei GOTOH	Katsuhiko ICHIKAWA	Hiroshi INAGAKI
Naokazu KOIZUMI	Sakae SHIUMIZ	Michiyasu SUGII
Megumi TASHIRO		

Business Staff

Yaichi ISHIMOTO Gisaburo TABUCHI

History of Publications

Term	Vol.	Title	Published
Jan., 1929- Dec., 1947	1-16	化学研究所講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
April, 1933	—	10 Jahre Institut für chemische Forschung (化学研究所創立十周年記念号)	—
March, 1949- Dec., 1949	17-19	化研講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
March, 1950- Sept., 1952	20-30	化学研究所報告 (Bulletin of the Institute for Chemical Research)	Quarterly
Dec., 1951	—	The Commemoration Volume for the Silver Jubilee (化学研究所創立二十五周年記念号)	—
Jan., 1953 onwards	31 No. 1-	Bulletin of the Institute for Chemical Research (化学研究所報告)	Bi-monthly

CONTENTS

Special Issue on Physical, Chemical and Biological Effects of Gamma Radiation, IV

Masao Horio, Kazuo Ōgami, Takashi Kondo and Ken'ichi Sekimoto: Effect of Gamma Irradiation upon Wool Fibers	1
Masao Horio, Kazuo Ōgami, Takashi Kondo and Ken'ichi Sekimoto: Polymerization of Styrene, Methyl Methacrylate and Acrylonitrile onto Wool by Gamma Irradiation	10
Masao Horio, Rikizo Imamura and Hideya Mizukami: Effect of Gamma- Irradiation upon Cellulose	17
Hiroshi Yoshida, Kozo Tsuji, Kôichirô Hayashi and Seizô Okamura: Study on the Reaction Between Polymer Radical and 1,1-Diphenyl-2-Picryl Hydrazyl	39
Sadamu Tahira, Naoko Shiomi and Takenobu Higashimura: Thermolu- minescence from Gamma Irradiated Amino Acids.....	48
Naoko Shiomi, Sadamu Tahira, Hiroshi Yoshida and Takenobu Higashi- mura: Radiothermoluminescence of Polyethylene and Disappearance of Free Radicals	55
Hiroyuki Hatano, Shigetake Ganno and Akira Ohara: Radiation Sensitivity of Amino Acids in Solution and in Protein to Gamma Rays	61
Hiroyuki Hatano, Shigetake Ganno and Souji Rokushika: Electron Spin Resonance Studies on the Mechanism of Enzyme Inactivation by Direct Action of Gamma Radiation.....	71
Hiroyuki Hatano and Souji Rokushika: Oxidative Deamination of Several Amino Acids in Aqueous Solution by Gamma Irradiation	76
Hiroyuki Hatano and Shigetake Ganno: Effects of Radiations on Colour of Pearl and on Amino Acid Composition of Conchiolin in Pearl	83
Michio Endo, Masatsune Kondo and Toshifumi Saigusa: A Versatile Cobalt-60 Irradiation Facility	89
Yasuo Imai: Radiation Effect on the Nucleic Acid	97
Ichiro Sakurada and Yoshito Ikada: Effects of Gamma Radiation on Poly- mer in Solution. (IV). Crosslinking and Degradation of Poly(Acrylic Acid) in Aqueous Solution	103
Ichiro Sakurada and Yoshito Ikada: Effects of Gamma Radiation on Poly- mer in Solution. (V). Intra-Molecular Crosslinking of Poly(Acrylic Acid) in Dilute Aqueous Solution	114
Ichiro Sakurada and Yoshito Ikada: Effects of Gamma Radiation on Poly- mer in Solution. (VI). Radiation Protection and Promotion in Aqueous Solutions of Poly(Vinyl Alcohol)	123

BULLETIN OF THE INSTITUTE
FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY

Vol. 40, 1962

Published bi-monthly by

THE INSTITUTE FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY
KYOTO, JAPAN

1962

(Bull. Inst. Chem. Res., Kyoto Univ.)

Author Index to Volume 40, 1962

ADACHI, Kazushige	42	TABUSHI, Masayuki	374, 381, 388
ARAKAWA, Masafumi.....	291, 300	TAKENAKA, Tohru	272
ASAI, Kosuke	81	TAKEUCHI, Yoshiichi	317
FUKUDA, Minoru	211	TAKEZAKI, Yoshimasa.....	229
FURUKAWA, Junji	130, 151, 171, 197, 211	TANAKA, SHOZO	36
GANNO, Shigetake	36	TARUMOTO, Tsunehiko	388
GOTOH, Rempei	240, 272	TSUJII, Waichiro.....	86
HAMAGUCHI, Tsuneaki	97	TSURUTA, Teiji	151
HANAI, Tetsuya	188, 240	UCHINO, Haruto	42
HATANAKA, Aikazu	322	YAMABA, Michiaki.....	42
HATANO, Hiroyuki	36	YAMAGISHI, Morihisa.....	42
HORIO, Masao	351, 358	YAMAMOTO, Ryuzo	197
ICHIKAWA, Katsuhiko	317	YAMASHITA, Shinzo.....	197, 211
IKADA, Yoshito	1, 16, 25		
INAGAKI, Hiroshi	364		
ITOH, Osamu	307		
KITAMARU, Ryoza	86		
KOIZUMI, Naokazu	188, 240		
KONDO, Takasi.....	351, 358		
KOTANI, Teizo	211		
MAKINO, Fumiyoshi.....	307		
MATSUI, Masakazu	381		
MUKOYAMA, Takeshi	54, 307		
NAKAKADO, Takeshi	67		
NIWA, Hiroshi.....	211		
OHNO, Minoru	322		
OKUDA, Akizo	81		
SAEGUSA, Takeo	171		
SAIGUSA, Toshifumi	67		
SAKAI, Chikaaki	351, 358		
SAKURADA, Ichiro	1, 16, 25		
SEKIMOTO, Ken'ichi	351, 358		
SHIGEMATSU, Tsunenobu...	374, 381, 388		
SHIMIZU, Sakae	54, 307		
SHIRAKAWA, Shigeru	42		
SUAMA, Masakazu	229		
SUITO, Eiji.....	291, 300		

京都大学化学研究所報告第41巻第1号

昭和38年3月25日 印刷

【非売品】

昭和38年3月30日 発行

大阪府高槻市古曽部

京都大学化学研究所

編集兼発行人

後 藤

廉 平

京都市上京区寺之内通小川西入

印刷所

山代印刷株式会社

京都市上京区寺之内通小川西入

印刷者

山 代 多 三 郎